

### Listing of Claims

1-3. (Canceled).

4. (Currently Amended) A vaccine comprising an immunogenic amount of an isolated protein of 16 kDa as determined by SDS PAGE said protein comprised of the amino acid sequence of which comprises the sequence set forth as SEQ ID NO 2, SEQ ID NO 4, or SEQ ID NO 6 of one of SEQ ID NO 2, 4, 6 for protecting a poikilothermic fish against infection by the bacterial pathogen *Piscirickettsia salmonis*.

5. (Previously Presented) The vaccine of claim 4, wherein said isolated protein is lipidated.

6. (Previously Presented) The vaccine of claim 4, wherein said isolated protein is fused to at least one other protein either at the N or C terminus or both.

7-12. (Canceled)

13. (Previously Presented) The vaccine of claim 4, further comprising an adjuvant.

14. (Currently Amended) The vaccine of claim 4, wherein the vaccine does not comprise an[[d]] adjuvant.

15. (New) The vaccine of claim 4 wherein said isolated protein comprises the amino acid sequence set forth as SEQ ID NO: 2.

16. (New) The vaccine of claim 4 wherein said isolated protein comprises the amino acid sequence set forth as SEQ ID NO: 4.

17. (New) The vaccine of claim 4 wherein said isolated protein comprises the amino acid sequence set forth as SEQ ID NO: 6.
18. (New) The vaccine of claim 15, wherein said isolated protein is lipidated.
19. (New) The vaccine of claim 16, wherein said isolated protein is lipidated.
20. (New) The vaccine of claim 17, wherein said isolated protein is lipidated.